

Federal Aviation Administration – [Regulations and Policies](#)  
Aviation Rulemaking Advisory Committee

Transport Airplane and Engine Issue Area  
Engine Harmonization Working Group

**Task 5 -- Turbine**

## **Task Assignment**

## DEPARTMENT OF TRANSPORTATION

## Federal Aviation Administration

## Aviation Rulemaking Advisory Committee; Transport Airplane and Engine Subcommittee; Propulsion Harmonization Working Group

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Notice of establishment of Propulsion Harmonization Working Group.

**SUMMARY:** Notice is given of the establishment of the Propulsion Harmonization Working Group of the Transport Airplane and Engine Subcommittee. This notice informs the public of the activities of the Transport Airplane and Engine Subcommittee of the Aviation Rulemaking Advisory Committee.

**FOR FURTHER INFORMATION CONTACT:** Mr. William J. (Joe) Sullivan, Executive Director, Transport Airplane and Engine Subcommittee, Aircraft Certification Service (AIR-3), 800 Independence Avenue SW., Washington, DC 20591, Telephone: (202) 267-9554; FAX: (202) 267-5364.

**SUPPLEMENTARY INFORMATION:** The Federal Aviation Administration (FAA) established an Aviation Rulemaking Advisory Committee (56 FR 2190, January 22, 1991) which held its first meeting on May 23, 1991 (56 FR 20492, May 3, 1991). The Transport Airplane and Engine Subcommittee was established at that meeting to provide advice and recommendations to the Director, Aircraft Certification Service, FAA, regarding the airworthiness standards for transport airplanes, engines and propellers in parts 25, 33, and 35 of the Federal Aviation Regulations (14 CFR parts 25, 33, and 35).

The FAA announced at the Joint Aviation Authorities (JAA)—Federal Aviation Administration (FAA) Harmonization Conference in Toronto, Ontario, Canada, (June 2-5, 1992) that it would consolidate within the Aviation Rulemaking Advisory Committee structure an ongoing objective to "harmonize" the Joint Aviation Requirements (JAR) and the Federal Aviation Regulations (FAR). Coincident with that announcement, the FAA assigned to the Transport Airplane and Engine Subcommittee those projects related to JAR/FAR 25, 33, and 35 harmonization which were then in the process of being coordinated between the JAA and the FAA. The harmonization process included the intention to present the results of JAA/

FAA coordination to the public in the form of either a Notice of Proposed Rulemaking or an advisory circular—an objective comparable to and compatible with that assigned to the Aviation Rulemaking Advisory Committee. The Transport Airplane and Engine Subcommittee, consequently, established the Propulsion Harmonization Working Group.

Specifically, the Working Group's tasks are the following: The Propulsion Harmonization Working Group is charged with making recommendations to the Transport Airplane and Engine Subcommittee concerning the FAA disposition of the following subjects recently coordinated between the JAA and the FAA:

**Task 1—Bird Ingestion:** Update turbine engine bird ingestion requirements, including size and number of birds and pass/fail criteria (FAR 33.77)

**Task 2—Inclement Weather:** Update the inclement weather requirements for rain and hail in turbine engines (FAR 33.77).

**Task 3—Vibration Surveys:** Determine test requirements and pass/fail criteria for turbine engine vibration tests (FAR 33.83).

**Task 4—Rotor Integrity:** Determine test requirements and pass/fail criteria for turbine, compressor, fan, and turbosupercharger rotor overspeed tests (FAR 33.27).

**Task 5—Turbine Rotor Overtemperature:** Clarify test and pass/fail requirements for turbine engine overtemperature tests to assure consistent certification criteria (FAR 33.88).

**Task 6—Windmilling:** Examine current turbine engine windmilling requirements and specify appropriate test and analysis requirements (FAR 33.92).

#### Reports:

A. Recommend time line(s) for completion of each task, including rationale, for Subcommittee consideration at the meeting of the subcommittee held following publication of this notice.

B. Give a detailed conceptual presentation on each task to the Subcommittee before proceeding with the work stated under items C and D, below. If task 1-6 require the development of more than one Notice of Proposed Rulemaking, identify what proposed amendments will be included in each notice.

C. Draft a Notice of Proposed Rulemaking for tasks 1-6 proposing new or revised requirements, a supporting economic analysis, and other required

analysis, with any other collateral documents (such as Advisory Circulars) the Working Group determines to be needed.

D. Give a status report on each task at each meeting of the Subcommittee.

The Propulsion Harmonization Working Group will be comprised of experts from those organizations having an interest in the tasks assigned. A working Group member need not necessarily be a representative of one of the organizations of the parent Transport Airplane and Engine Subcommittee or of the full Aviation Rulemaking Advisory Committee. An individual who has expertise in the subject matter and wishes to become a member of the Working Group should write the person listed under the caption **FOR FURTHER INFORMATION CONTACT** expressing that desire, describing his or her interest in the task, and the expertise he or she would bring to the Working Group. The request will be reviewed with the Subcommittee and Working Group Chairs and the individual will be advised whether or not the request can be accommodated.

The Secretary of Transportation has determined that the information and use of the Aviation Rulemaking Advisory Committee and its subcommittees are necessary in the public interest in connection with the performance of duties of the FAA by law. Meetings of the full Committee and any subcommittees will be open to the public except as authorized by section 10(d) of the Federal Advisory Committee Act. Meetings of the Propulsion Harmonization Working Group will not be open to the public except to the extent that individuals with an interest and expertise are selected to participate. No public announcement of Working Group meetings will be made.

Issued in Washington, DC, on December 4, 1992.

William J. Sullivan,  
Executive Director, Transport Airplane and Engine Subcommittee, Aviation Rulemaking Advisory Committee.

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BILLING CODE 4910-13-M

**Analysis completed; no recommendation resulted.**

## FAA Action



U.S. Department  
of Transportation  
**Federal Aviation  
Administration**

800 Independence Ave., S.W.  
Washington, D.C. 20591

MAY 15 1998

Mr. Craig R. Bolt  
Manager, Systems Development and  
Validation  
Pratt & Whitney  
400 Main Street  
Mail Stop 162-24  
East Hartford, CT 06108

Dear Mr. Bolt:

We have begun an effort to close out old Aviation Rulemaking Advisory Committee (ARAC) tasks and recommendations. In our review of the oldest tasks, it became apparent that several assigned to Transport Airplane and Engine Issues can be closed.

In its most recent report, the Loads and Dynamics Harmonization Working Group has advised ARAC that no changes to 14 CFR Title 14 are necessary under Task 6 (Strength and Deformation) or Task 7 (Design Flap Speeds), and consequently the working group will not be submitting any recommendations to ARAC.

The Loads and Dynamics Harmonization Working Group also has recommended to ARAC that Task 10 (Rough Air Speed) be combined with Task 5 (Continuous Turbulence Loads).

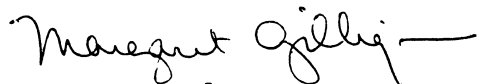
The General Structures Harmonization Working Group has advised ARAC that the substance of its Task 6 (Residual Strength Loads for Damage Tolerance) is being addressed in its Task 5 (Damage Tolerance and Fatigue) and, therefore, Task 6 can be closed.

The Engine Harmonization Working Group has advised ARAC that Task 5 (Turbine Rotor Overtemperature) is no longer considered a Significant Regulatory Difference with the Joint Aviation Authorities JAR-E regulations and, therefore, the task can be closed.

If ARAC agrees with the above, the FAA will consider Loads and Dynamics Harmonization Working Group Tasks 6, 7, and 10; Engine Harmonization Working Group Task 5; and General Structures Harmonization Working Group Task 6 closed. Please advise us as soon as possible.

If you have any questions, please call Jean Casciano on  
(202) 267-9683.

Sincerely,

A handwritten signature in cursive script, reading "Margaret Gillig", followed by a horizontal line.

Guy S. Gardner  
Associate Administrator for  
Regulation and  
Certification